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FORM PTODE 19 A and B (prodified PTO/SB/08)	APPLICATION NO.: 10/61	3,228 ATTY. DOCKET NO.: C1037.70045US00
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT	APPLICANT: Krieg	et al.
Sheet I of 2	GROUP ART UNIT: 1645	EXAMINER: Nita M. Minnifield

U.S. PATENT DOCUMENTS

l	Fyaminer	Examiner's		U.S. Patent Do	cument	Name of Patentee or Applicant of Cited	Date of Publication or Issue
	Initials #		Cite No.	Number	Kind Code	Document	of Cited Document MM-DD-YYYY
I	/NMI	M/	A139	2004-0053880	A1	Krieg	03-18-2004
I			A140	2004-0076905	A1	Yagihashi et al.	04-22-2004
I			A141	2004-0234960	Al	Olek et al.	11-25-2004
1	\overline{V}	7.	A142	2005-0019340	Al	Garcon et al.	01-27-2005
ĺ	/NMI	M/	A143	2005-0038239	Al	Catchpole	02-17-2005

FOREIGN PATENT DOCUMENTS

Examiner's	Cita	Cite Foreign Patent Document		ıment	Name of Patentee or Applicant of Cited	Date of Publication of	Translation
fnitials "	No.	Office/ Country	Number	Kind Code	Document Document	Cited Document MM-DD-YYYY	(Y/N)
/NMM/	B23	wo	01/22972	A2	Coley Pharmaceuticals, GmbH	04-05-2001	
		1					
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OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials #	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)				
/NMM/ L	C59	AGRAWAL et al., Medicinal chemistry and therapeutic potential of CpG DNA. Trends Mol Med. 2002 Mar;8(3):114-21.					
	C60	BALLAS et al., Divergent therapeutic and immunologic effects of oligodeoxynucleotides with distinct CpG motifs. J Immunol. 2001 Nov 1;167(9):4878-86.					
	C61	BITTON et al., Cancer vaccines: a critical review on clinical impact. Curr Opin Mol Ther. 2004 Feb;6(1):17-26. Abstract Only.					
	C62	CHAN et al., CpG-A and CpG-B oligodeoxynucleotides differentially affect the cytokine profile, chemokine receptor expression and T-cell priming function of human plasmacytoid dendritic cells. Blood. 2002;100:50b. Abstract #3666.					
/NMM/	C63	DAVILA et al., Repeated administration of cytosine-phosphorothiolated guanine-containing oligonucleotides together with peptide/protein immunization results in enhanced CTL responses with anti-tumor activity. J Immunol. 2000 Jul 1;165(1):539-47.					

EXAMINER:	DATE CONSIDERED:
/N. M. Minnifield/ (03/18/2007)	03/18/2007

EXAMINER: Initial if reference considered, whether or notitation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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FORM PTO	DEC -1449/4_and B (1 1 20	PTO SR/08)	APPLICATION NO.:	10/613,228	ATTY. DOCKET NO.: C1037.70045US00
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Sheet	2	of	2	GROOF ART OWN.		EXAMINER. Mila M. Milainield

/NM	/NMM/		DE GRUJIL et al., Cancer vaccine strategies get bigger and better. Nat Med. 1999 Oct;5(10):1124-5.							
C65			DONNELLY et al., Cancer vaccine targets leukemia. Nat Med. 2003 Nov;9(11):1354-6.							
		C66	JAIN et al., Barriers to drug delivery in solid tumors. Scientific American. 1994; 271:58-65.							
		C67	KRIEG et al., Mechanisms and therapeutic applications of immune stimulatory CpG DNA. Pharmacol Ther. 1999 Nov;84(2):113-20.							
		C68	KRIEG et al., The CpG motif: Implications for clinical immunology. BioDrugs. 1998 Nov 1;10(5):341-6.							
		C69	LIANG et al., Activation of human B cells by phosphorothioate oligodeoxynucleotides. J Clin Invest. 1996 Sep 1;98(5):1119-29.							
		C70	LIPFORD et al., CpG-containing synthetic oligonucleotides promote B and cytotoxic T cell responses to protein antigen: a new class of vaccine adjuvants. Eur J Immunol. 1997 Sep;27(9):2340-4.							
•		C71	MacFARLANE et al., Unmethylated CpG-containing oligodeoxynucleotides inhibit apoptosis in WEHI 231 B lymphocytes induced by several agents: evidence for blockade of apoptosis at a distal signalling step. Immunology. 1997 Aug;91(4):586-93.							
		C72	ROCHLITZ et al., Gene therapy of cancer. Swiss Med Wkly. 2001 Jan 12;131(1-2):4-9.							
		C73	VERMA et al., Gene therapy—promises, problems, and prospects. Nature. 1997 Sep18;389:239-42.							
	1	C74	VILE et al., Cancer gene therapy: hard lessons and new courses. Gene Ther. 2000 Jan;7(1):2-8.	-						
/NI	MM/	C75	WEINER et al., The immunobiology and clinical potential of immunostimulatory CpG oligodeoxynucleotides. J Leukoc Biol. 2000 Oct;68(4):455-63.							

^{*}a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. ___, filed ___, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

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EXAMINER:	DATE CONSIDERED:
/N. M. Minnifield/ (03/18/2007)	03/18/2007
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^{*} EXAMINER: Initial if reference considered, whether or notcitation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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l .	0 2006 6 0-1449/A ## B (m	nodified	PTO/SR/08)	APPLICATION NO.:	10/613,228	ATTY. DOCKET NO	.: C1037.70045US00
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STAT	EMENT BY	APP	LICANT	APPLICANT:	Krieg et al.		
Sheet	1	of	7	GROUP ART UNIT:	1645	EXAMINER:	Nita M. Minnifield

U.S. PATENT DOCUMENTS

Examiner's	Cite	U.S. Patent Docu	iment	Name of Patentee or Applicant of Cited	Date of Publication or Issue	
Initials #	No.	Number	Kind Code	Document	of Cited Document MM-DD-YYYY	
/NMM/	A61	6,030,955		Stein et al.	02-29-2000	
	A62	6,558,670	Bl	Friede et al.	05-06-2003	
	A63	6,610,661	Bl	Carson et al.	08-26-2003	
	A64	6,821,957	Bl	Krieg et al.	11-23-2004	
	A65	6,943,240		Bauer et al.	09-13-2005	
	A66	6,949,520		Hartmann et al.	09-27-2005	
	A67	7,001,890		Wagner et al.	02-26-2006	
	A68	2002-0192184	Al	Carpentier et al.	12-19-2002	
	A69	2004-0038922	A1	Haensler et al.	02-26-2004	
	A70	2004-0047869	A1	Garcon et al.	03-11-2004	
	A71	2004-0229835	A1	Krieg et al.	11-18-2004	
	A72	2004-0234512	A1	Wagner et al.	11-25-2004	
	A73	2004-0235770	Al	Davis et al.	11-25-2004	
	A74	2004-0235774	A1	Bratzler et al.	11-25-2004	
	A75	2004-0235777	A1	Wagner et al.	11-25-2004	
	A76	2004-0235778	Al	Wagner et al.	11-25-2004	
	A77	2004-0247662	Al	Dow et al.	12-09-2004	
	A78	2004-0266719	Al	McCluskie et al.	12-30-2004	
	A79	2005-0004061	Al	Krieg et al.	01-06-2005	
	A80	2005-0004144	Al	Carson et al.	01-06-2005	
	A81	2005-0009774	Al	Krieg et al.	01-13-2005	
	A82	2005-0013812	Al	Dow et al.	01-20-2005	
	A83	2005-0031638	Al	Dalemans et al.	02-10-2005	
	A84	2005-0032734	Al	Davis et al.	02-10-2005	
	A85	2005-0032736	Al	Krieg et al.	02-10-2005	
	A86	2005-0037403	A1	Krieg et al.	02-17-2005	
	A87	2005-0037985	A1	Krieg et al.	02-17-2005	
	A88	2005-0043529	A1	Davis et al.	02-24-2005	
	A89	2005-0049215	Al	Krieg et al.	03-03-2005	
	A90	2005-0054601	A1	Wagner et al.	03-10-2005	
Ψ	A91	2005-0054602	Al · ·	Krieg et al.	03-10-2005	
/NMM/	A92	2005-0059619	Al	Krieg et al.	03-17-2005	

EXAMINER:	DATE CONSIDERED:
/N. M. Minnifield/ (09/17/2007)	09/17/2007

EXAMINER: Initial if reference considered, whether or notcitation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered nelude copy of this form with next communication to Applicant.

APPLICATION NO.: 10/613,228 ATTY. DOCKET NO.: C1037.70045US00 FORM PTO-1449/A and B (modified PTO/SB/08) FILING DATE: July 3, 2003 **CONFIRMATION NO.: 4680** INFORMATION DISCLOSURE STATEMENT BY APPLICANT APPLICANT: Krieg et al. GROUP ART UNIT: 1645 **EXAMINER:** Nita M. Minnifield Sheet 2

/NMM/	A93	2005-0059625	Al	Krieg et al.	03-17-2005
	A94	2005-0064401	Al	Olek et al.	03-24-2005
	A95	2005-0070491	Al	Krieg et al.	03-31-2005
	A96	2005-0075302	Al	Hutcherson et al.	04-07-2005
	A97	2005-0100983	Al	Bauer et al.	05-12-2005
	A98	2005-0101554	Al	Krieg et al.	05-12-2005
	A99	2005-0101557	Al	Krieg et al.	05-12-2005
	A100	2005-0119273	Al	Lipford et al.	06-02-2005
	A101	2005-0130911	A1	Uhlmann et al.	06-16-2005
	A102	2005-0148537	Al	Krieg et al.	07-07-2005
	A103	2005-0169888	A1	Hartman et al.	08-04-2005
	A104	2005-0171047	Al	Krieg et al.	08-04-2005
	A105	2005-0181422	A1	Bauer et al.	08-18-2005
	A106	2005-0215500	Al	Krieg et al.	09-29-2005
	A107	2005-0215501	A1	Lipford et al.	09-29-2005
	A108	2005-0233995	A1	Krieg et al.	10-20-2005
	A109	2005-0233999	A 1	Krieg et al.	10-20-2005
	A110	2005-0239732	Al	Krieg et al.	10-27-2005
	A111	2005-0239733	Al	Jurk et al.	10-27-2005
	A112	2005-0239734	Al	Uhlmann et al.	10-27-2005
	A113	2005-0239736	A1	Krieg et al.	10-27-2005
	A114	2005-0245477	Al	Krieg et al.	11-03-2005
	A115	2005-0244379	Al	Krieg et al.	11-03-2005
	A116	2005-0244380	A 1	Krieg et al.	11-03-2005
	A117	2005-0250726	Al	Krieg et al.	11-10-2005
	A118	2005-0256073	A1	Lipford et al.	11-17-2005
	A119	2005-0267057	A1	Krieg	12-01-2005
	A120	2005-0267064	A1	Krieg et al.	12-01-2005
	A121	2005-0277604	Al	Krieg et al.	12-15-2005
	A122	2005-0277609	Al	Krieg et al.	12-15-2005
	A123	2006-0003955	Al	Krieg et al.	01-05-2006
	A124	2006-0003962	Al	Ahluwalia et al.	01-05-2006
	A125	2006-0019916	Al	Krieg et al.	01-26-2006
	A126	2006-0019923	A1	Davis et al.	01-26-2006
Ψ	A127	2006-0058251	Al	Krieg et al.	03-16-2006
/NMM/	A128	2006-0089326	Al	Krieg et al.	04-27-2006

EXAMINER: /N. M. Minnifield/ (09/17/2007)	DATE CONSIDERED:
	09/17/2007

EXAMINER: Initial if reference considered, whether or noticitation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO	O-1449/A and B (i	modified	1 PTO/SB/08)	APPLICATION NO.:	10/613,228	ATTY. DOCKET NO	.: C1037.70045US00
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l .	EMENT BY			APPLICANT:	Krieg et al.		
Sheet	3	of	7	GROUP ART UNIT:	1645	EXAMINER:	Nita M. Minnifield

/NMM/	A129	2006-0094683	Al	Krieg et al.	05-04-2006
	A130	2006-0140875	Al	Krieg et al.	06-29-2006
	A131	2006-0154890	A1	Bratzler et al.	07-13-2006
	A132	2006-0172966	Al	Lipford et al.	08-03-2006
	A133	2006-0188913	Al	Krieg et al.	08-24-2006
	A134	2006-0211639	·A1	Bratzler et al.	09-21-2006
	A135	2006-0211644	Al	Krieg et al.	09-21-2006
	A136	2006-0229271	Al	Krieg et al.	10-12-2006
V	A137	2006-0241076	A1	Uhlmann et al.	10-26-2006
/NMM/	A138	2006-0246035	Al	Ahluwalia et al.	11-02-2006

FOREIGN PATENT DOCUMENTS

Examiner's Cite Foreign Patent Docume		er's Cite		ent	Name of Patentee or Applicant of Cited	Date of	Translation
Initials #	No.	Office/ Country	Number	Kind Code	Document Document	Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
/NMM/	В6	EP	0 302 758	A1	New England Medical Center Hospitals, Inc.	02-08-1989	
	B7	EP	0 468 520	A2	Mitsui Toatsu Chemicals, Inc.	01-29-1992	
	B8	WO	96/02555	Al	University of Iowa Research Foundation	02-01-1996	
	B9	WO .	99/56755	Al	University of Iowa Research Foundation	11-11-1999	
	B10	WO	00/06588	Al	University of lowa Research Foundation	02-10-2000	
	B11	WO	00/15256	A2	Pasteur Merieux Serums Et Vaccins [FR]	03-23-2000	Abstract
	B12	WO	00/54803	A2	Panacea Pharmaceuticals, LLC.	09-21-2000	
	B13	wo	00/61151	A2	The Government of the United States of America	10-19-2000	
	B14	WO	00/67787	A2	The Immune Response Corporation	11-16-2000	
	B15	WO	01/35991	A2	Dynavax Technologies Corporation	05-25-2001	
	B16	WO	01/45750	Al	Regents of the University of California	06-28-2001	
	B17	WO	02/28428	A2	Aventis Pasteur [FR]	04-11-2002	Abstract
	B18	WO	2004/007743	A2	Coley Pharmaceutical GmbH	01-22-2004	
	B19	WO	2004/026888	A2	Coley Pharmaceutical GmbH	04-01-2004	
	B20	WO	2004/094671	A2	Coley Pharmaceutical GmbH	11-04-2004	
	B21	WO	2005/004910	A2	Intercell Ag	01-20-2005	
/NMM/	B22	wo	2005/023289	Al	Intellectual Property Consulting Incorporated	03-17-2005	Abstract

EXAMINER:	DATE CONSIDERED:
/N. M. Minnifield/ (09/17/2007)	09/17/2007

EXAMINER: Initial if reference considered, whether or notitation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered neclude copy of this form with next communication to Applicant.

FORM PTO)-1449/A and B (r	nodified	PTO/SR/08)	APPLICATION NO.:	10/613,228	ATTY. DOCKET NO.:	C1037.70045US00
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	EMENT BY			APPLICANT:	Krieg et al.		
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	T	OTHER ART — NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item	
Examiner's Initials #	Cite No	(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue πumber(s), publisher, city and/or country where published.	Translation (Y/N)
/NMM/	Cl	ASKEW et al., CpG DNA induces maturation of dendritic cells with distinct effects on nascent and recycling MHC-II antigen-processing mechanisms. J Immunol. 2000 Dec 15;165(12):6889-95.	
	C2	AUF et al., Implication of macrophages in tumor rejection induced by CpG-oligodeoxynucleotides without antigen. Clin Cancer Res. 2001 Nov;7(11):3540-3.	
	C3	BARAL et al., Immunostimulatory CpG oligonucleotides enhance the immune response of anti- idiotype vaccine that mimics carcinoembryonic antigen. Cancer Immunol Immunother. 2003 May;52(5):317-27.	
	C4	BLAZAR et al., Synthetic unmethylated cytosine-phosphate-guanosine oligodeoxynucleotides are potent stimulators of antileukemia responses in naive and bone marrow transplant recipients. Blood. 2001 Aug 15;98(4):1217-25.	
	C5	BROIDE et al., DNA-Based immunization for asthma. Int Arch Allergy Immunol. 1999 Feb- Apr;118(2-4):453-6.	
	C6	BRUNNER et al., Enhanced dendritic cell maturation by TNF-alpha or cytidine-phosphate-guanosine DNA drives T cell activation in vitro and therapeutic anti-tumor immune responses in vivo. J Immunol. 2000 Dec 1;165(11):6278-86.	
	C7	CARPENTIER et al., Successful treatment of intracranial gliomas in rat by oligodeoxynucleotides containing CpG motifs. Clin Cancer Res. 2000 Jun;6(6):2469-73.	
	C8	CARPENTIER et al., Oligodeoxynucleotides containing CpG motifs can induce rejection of a neuroblastoma in mice. Cancer Res. 1999 Nov 1;59(21):5429-32.	
	C9	CHOI et al., The level of protection against rotavirus shedding in mice following immunization with a chimeric VP6 protein is dependent on the route and the coadministered adjuvant. Vaccine. 2002 Mar 15;20(13-14):1733-40.	
	C10	CHU et al., CpG oligodeoxynucleotides act as adjuvants that switch on T helper 1 (Th1) immunity. J Exp Med. 1997 Nov 17;186(10):1623-31.	
	C11	COOPER et al., Safety and immunogenicity of CPG 7909 injection as an adjuvant to Fluarix influenza vaccine. Vaccine. 2004 Aug 13;22(23-24):3136-43.	
	C12	DAFTARIAN et al., Two distinct pathways of immuno-modulation improve potency of p53 immunization in rejecting established tumors. Cancer Res. 2004 Aug 1;64(15):5407-14.	
	C13	DAVIS et al., CpG ODN is safe and highly effective in humans as adjuvant to HBV vaccine: Preliminary results of Phase I trial with CpG ODN 7909. Third Annual Conference on Vaccine Res. 2000. Abstract s25, number 47.	
	C14	DAVILA et al., Generation of antitumor immunity by cytotoxic T lymphocyte epitope peptide vaccination, CpG-oligodeoxynucleotide adjuvant, and CTLA-4 blockade. Cancer Res. 2003 Jun 15;63(12):3281-8.	
$\sqrt{}$	C15	GALLICHAN et al., Intranasal immunization with CpG oligodeoxynucleotides as an adjuvant dramatically increases IgA and protection against herpes simplex virus-2 in the genital tract. J Immunol. 2001 Mar 1;166(5):3451-7.	
/NMM/	C16	GAO et al., Bacterial DNA and lipopolysaccharide induce synergistic production of TNF-alpha through a post-transcriptional mechanism. J Immunol. 2001 Jun 1;166(11):6855-60.	

EXAMINER:	DATE CONSIDERED:
/N. M. Minnifield/ (09/17/2007)	09/17/2007

EXAMINER: Initial if reference considered, whether or notcitation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO)-1449/A and B (r	nodifia	4 PTO/SB/08)	APPLICATION NO.:	10/613,228	ATTY. DOCKET NO	D.: C1037.70045US00
	RMATION 1		·	FILING DATE:	July 3, 2003	CONFIRMATION N	O.: 4680
i -	EMENT BY			APPLICANT:	Krieg et al.		
Sheet		Tof	T 7	GROUP ART UNIT:	1645	EXAMINER:	Nita M. Minnifield

/NMM/	C17	GARBI et al., CpG motifs as proinflammatory factors render autochthonous tumors permissive for infiltration and destruction. J Immunol. 2004 May 15;172(10):5861-9.	
	C18	GOUTTEFANGEAS et al., Problem solving for tumor immunotherapy. Nat Biotechnol. 2000 May;18(5):491-2.	
	C19	GROSSMANN et al., Avoiding tolerance against prostatic antigens with subdominant peptide epitopes. J Immunother. 2001 May-Jun;24(3):237-41.	
	C20	HAFNER et al., Antimetastatic effect of CpG DNA mediated by type I IFN. Cancer Res. 2001 Jul 15;61(14):5523-8.	
	C21	HARTMANN et al., CpG DNA: a potent signal for growth, activation, and maturation of human dendritic cells. Proc Natl Acad Sci U S A. 1999 Aug 3;96(16):9305-10.	
	C22	HEEG et al., CpG DNA as a Th1 trigger. Int Arch Allergy Immunol. 2000 Feb; 121(2):87-97.	
	C23	JAKOB et al., Activation of cutaneous dendritic cells by CpG-containing oligodeoxynucleotides: a role for dendritic cells in the augmentation of Th1 responses by immunostimulatory DNA. J Immunol. 1998 Sep 15;161(6):3042-9.	
	C24	JAKOB et al., Bacterial DNA and CpG-containing oligodeoxynucleotides activate cutaneous dendritic cells and induce IL-12 production: implications for the augmentation of Th1 responses. Int Arch Allergy Immunol. 1999 Feb-Apr;118(2-4):457-61.	
	C25	JUFFERMANS et al., CpG oligodeoxynucleotides enhance host defense during murine tuberculosis. Infect Immun. 2002 Jan;70(1):147-52.	
-	C26	KATAOKA et al., Antitumor activity of synthetic oligonucleotides with sequences from cDNA encoding proteins of Mycobacterium bovis BCG. Jpn J Cancer Res. 1992 Mar;83(3):244-7.	
	C27	KATAOKA et al., Immunotherapeutic potential in guinea-pig tumor model of deoxyribonucleic acid from Mycobacterium bovis BCG complexed with poly-L-lysine and carboxymethylcellulose. Jpn J Med Sci Biol. 1990 Oct;43(5):171-82.	
	C28	KLINMAN et al., Immunotherapeutic applications of CpG-containing oligodeoxynucleotides. Drug News Perspect. 2000 Jun;13(5):289-96.	
	C29	KLINMAN et al., Immune recognition of foreign DNA: a cure for bioterrorism? Immunity. 1999 Aug;11(2):123-9.	·
	C30	KRIEG et al., Applications of immune stimulatory CpG DNA for antigen-specific and antigen-nonspecific cancer immunotherapy. Eur J Canc. 1999 Oct; 35/Suppl4:S10. Abstract #14.	
	C31	KRIEG et al., Enhancing vaccines with immune stimulatory CpG DNA. Curr Opin Mol Ther. 2001 Feb;3(1):15-24.	
	C32	KRIEG et al., Bacterial DNA or oligonucleotides containing CpG motifs protect mice from lethal L. monocytogenes challenge. 1996 Meeting on Molecular Approaches to the Control of Infectious Diseases. Cold Spring Harbor Laboratory, September 9-13, 1996: 116.	
	C33	KURAMOTO et al., Induction of T-cell-mediated immunity against MethA fibrosarcoma by intratumoral injections of a bacillus Calmette-Guerin nucleic acid fraction. Cancer Immunol Immunother. 1992;34(5):283-8.	
	C34	LEE et al., Immuno-stimulatory effects of bacterial-derived plasmids depend on the nature of the antigen in intramuscular DNA inoculations. Immunology. 1998 Jul;94(3):285-9.	
NMM/	C35	LIU et al., CpG ODN is an effective adjuvant in immunization with tumor antigen. J Invest Med. 1997 Sept7;45(7):333A.	

EXAMINER:	DATE CONSIDERED:
/N. M. Minnifield/ (09/17/2007)	09/17/2007

EXAMINER: Initial if reference considered, whether or notcitation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

APPLICATION NO.: 10/613,228 ATTY. DOCKET NO.: C1037.70045US00 FORM PTO-1449/A and B (modified PTO/SB/08) July 3, 2003 **CONFIRMATION NO.: 4680 FILING DATE:** INFORMATION DISCLOSURE APPLICANT: Krieg et al. STATEMENT BY APPLICANT **GROUP ART UNIT:** 1645 **EXAMINER:** Nita M. Minnifield Sheet 6 of

/N.IN.AN.A/	C36	LONSDORF et al., Intratumor CpG-oligodeoxynucleotide injection induces protective antitumor T	
/NMM/	636	cell immunity. J Immunol. 2003 Oct 15;171(8):3941-6.	
	C37	MANEGOLD et al., Addition of PF-3512676 (CpG 7909) to a taxane/platinum regimen for first-	
		line treatment of unresectable non-small cell lung cancer (NSCLC) improves objective response—	
	<u> </u>	Phase II clinical trial. Pfizer Poster. 2005. Abstract 1131.	
	C38	McCLUSKIE et al., CpG DNA is a potent enhancer of systemic and mucosal immune responses	
		against hepatitis B surface antigen with intranasal administration to mice. J Immunol. 1998 Nov 1;161(9):4463-6.	
	C39	McCLUSKIE et al., CpG DNA as mucosal adjuvant. Vaccine, 18: 231-237, 2000.	
	C40	McCLUSKIE et al., Oral, intrarectal and intranasal immunizations using CpG and non-CpG oligodeoxynucleotides as adjuvants. Vaccine. 2000 Oct 15;19(4-5):413-22.	
	C41	McCLUSKIE et al., CpG DNA is an effective oral adjuvant to protein antigens in mice. Vaccine. 2000 Nov 22;19(7-8):950-7.	
	C42	MICONNET et al., CpG are efficient adjuvants for specific CTL induction against tumor antigenderived peptide. J Immunol. 2002 Feb 1;168(3):1212-8.	
	C43	MILAS et al., CpG oligodeoxynucleotide enhances tumor response to radiation. Cancer Res. 2004 Aug 1;64(15):5074-7.	
	C44	PAVLICK et al., Novel therapeutic agents under investigation for malignant melanoma. Expert Opin Investig Drugs. 2003 Sep;12(9):1545-58.	
	C45	PISETSKY et al., The immunologic properties of DNA. J Immunol. 1996 Jan 15;156(2):421-3.	
	C46	RAY et al., Oral pretreatment of mice with immunostimulatory CpG DNA induces reduced susceptibility to <i>Listeria monocytogenes</i> . Experimental Biology 2001. Orlando, Florida, USA. March 31-April 4, 2001. Abstracts, part II. FASEB J. 2001 Mar 8;15(5):A1007.	
	C47	STERN et al., Vaccination with tumor peptide in CpG adjuvant protects via IFN-gamma-dependent CD4 cell immunity. J Immunol. 2002 Jun 15;168(12):6099-105.	
	C48	TOKUNAGA et al., A synthetic single-stranded DNA, poly(dG,dC), induces interferon-alpha/beta and -gamma, augments natural killer activity, and suppresses tumor growth. Jpn J Cancer Res. 1988 Jun;79(6):682-6.	
	C49	TORTORA et al., Oral antisense that targets protein kinase A cooperates with taxol and inhibits tumor growth, angiogenesis, and growth factor production. Clin Cancer Res. 2000 Jun;6(6):2506-12.	
	C50	VAN OJIK et al., Phase I/II study with CpG 7909 as adjuvant to vaccination with MAGE-3 protein in patients with MAGE-3 positive tumors. Ann Oncol. 2003;13:157. Abstract 5790.	
	C51	VICARI et al., Reversal of tumor-induced dendritic cell paralysis by CpG immunostimulatory oligonucleotide and anti-interleukin 10 receptor antibody. J Exp Med. 2002 Aug 19;196(4):541-9.	
	C52	WAGNER et al., CpG motifs are efficient adjuvants for genetic vaccines to induce antigen-specific protective anti-tumor T cell responses. 2000;203:429. Abstract R46.	
	C53	WANG et al., CpG oligodeoxynucleotides inhibit tumor growth and reverse the immunosuppression caused by the therapy with 5-fluorouracil in murine hepatoma. World J Gastroenterol. 2005 Feb 28;11(8):1220-4.	
/NMM/	C54	WARREN et al., CpG oligodeoxynucleotides enhance monoclonal antibody therapy of a murine lymphoma. Clin Lymphoma. 2000 Jun;1(1):57-61.	

EXAMINER:	DATE CONSIDERED:
/N. M. Minnifield/ (09/17/2007)	09/17/2007
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FORM PTO-1449/A and B (modified PTO/SB/08)			APPLICATION NO.:	10/613,228	ATTY. DOCKET NO	.: C1037.70045US00	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		FILING DATE:	July 3, 2003	CONFIRMATION NO.: 4680			
		APPLICANT:	Krieg et al.				
		GROUP ART UNIT:	1645	EXAMINER:	Nito M. Minniffeld		
Sheet	7	of	7	OROUF ART UNIT:	1043	EAAMINEK:	Nita M. Minnifield

/NMM/	C55	WEERATNA et al., CpG ODN can re-direct the Th bias of established Th2 immune responses in adult and young mice. FEMS Immunol Med Microbiol. 2001 Dec;32(1):65-71.	
/NMM/	C56	WEIGEL et al., Dendritic cell (DC)/AML hybrid vaccine administered with CpG oligodeoxynucleotide adjuvant provides protective anti-tumor effects. Proceedings of the American Association for Cancer Research. 2003 Jul;44(2);394-5. Abstract #1992.	
/NMM/	C57	WEINER et al., Immunostimulatory oligodeoxynucleotides containing the CpG motif are effective as immune adjuvants in tumor antigen immunization. Proc Natl Acad Sci U S A. 1997 Sep 30;94(20):10833-7.	
/NMM/	C58	WERNETTE et al., CpG oligodeoxynucleotides stimulate canine and feline immune cell proliferation. Vet Immunol Immunopathol. 2002 Jan 15;84(3-4):223-36.	

^{*}a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. ___, filed ___, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

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